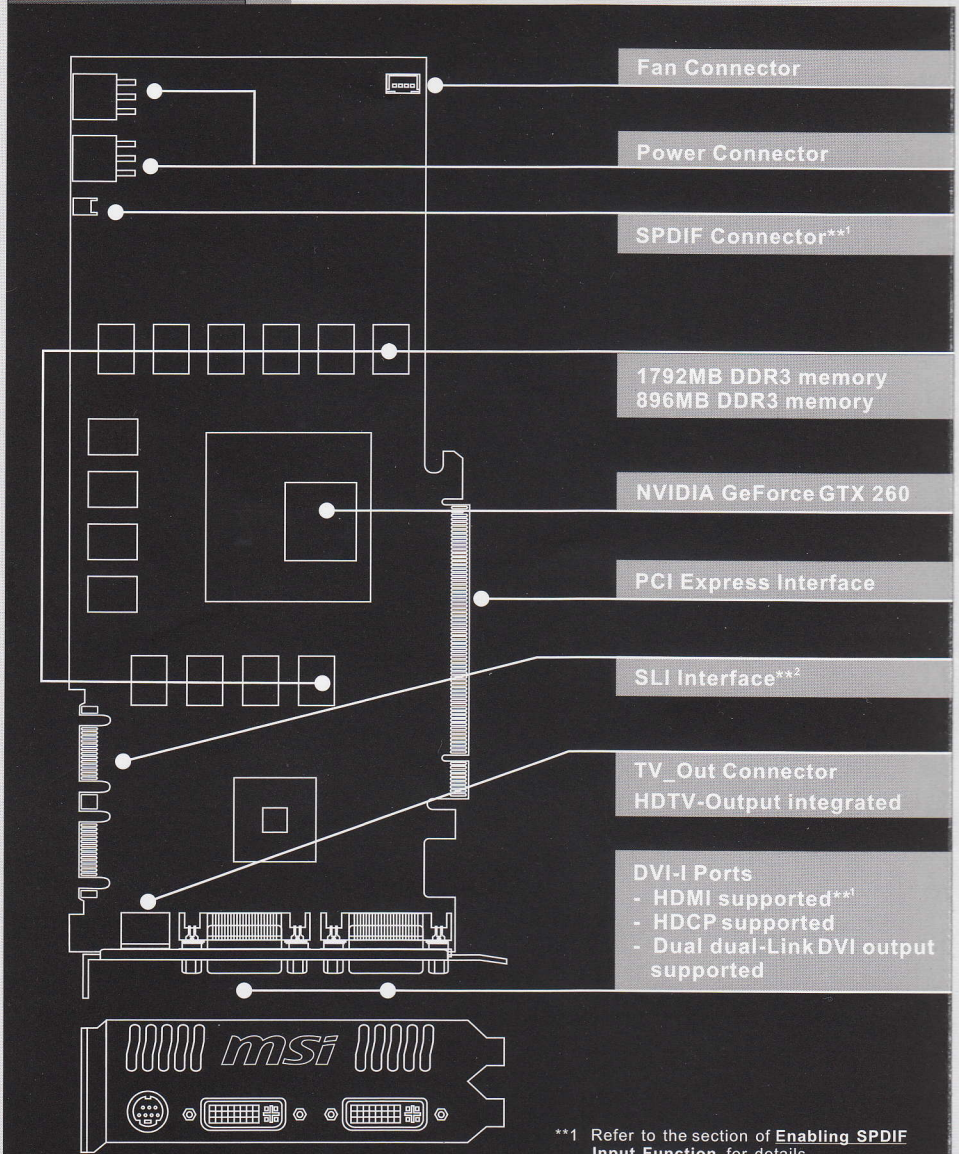
Quick User's Guide

N260GTX series

msi

Overview 1



1 Refer to the section of **Enabling SPDIF Input Function for details.

**2 To ensure the best SLI performance, please visit MSI website to update the latest driver.

Note: The VGA card shown here may vary from the actual card.
For further information, please visit MSI website at www.msi.com.tw

Getting Started 2

Unpacking

Please check out the following items
- VGA card
- Disk: Drivers, documentation, and
- Consult your dealer immediately if

System Requirements

To install the VGA card, your computer
- PCI Express® or PCI Express 2.0® slot
- Two 6-pin PCI Express supplementa
- Minimum 500W or greater system p **Minimum system power requireme processor Qx9650
- CD-ROM / DVD-ROM for driver inst
- Visiting MSI website for further infor

Card Features

For refere

- **2nd Generation NVIDIA® Unified A** Second generation architecture deli generation through 216 enhanced p horsepower.
- **NVIDIA® PhysX™- Ready** GeForce GPU support for NVIDIA Ph gaming interaction for a more dynam
- **3-wayNVIDIA® SLI™ Technology** Industry leading 3-way NVIDIA SLI t implementing 3-way AFR (Alternate solution under Windows Vista with s
- **Microsoft® DirectX 10 Support** DirectX 10 GPU with full ShaderMod realism and film-quality effects for to
- **NVIDIA® CUDA™ Technology** CUDA technology unlocks the powe demanding system tasks - such as traditional CPUs.
- **PCI Express 2.0 Support** Designed for the new PCI Express 2 speeds for the most bandwidth-hung backwards compatibility with existing
- **GigaThread™ Technology** Massively multi-threaded architectu threads, providing extreme processi programs.
- **NVIDIA® Lumenex™ Engine** Delivers stunning image quality and

Fan Connector

Power Connector

SPDIF Connector**[1]

1792MB DDR3 memory
896MB DDR3 memory

NVIDIA GeForce GTX 260

PCI Express Interface

SLI Interface**[2]

TV_Out Connector
HDTV-Output integrated

DVI-I Ports
- HDMI supported**[1]
- HDCP supported
- Dual dual-Link DVI output supported

Refer to the section of **Enabling SPDIF Input Function** for details.

To ensure the best SLI performance, please visit MSI website to update the latest driver.

Unpacking

Please check out the following items to make sure that you get the complete product:

- VGA card
- Disk: Drivers, documentation, and applications

Consult your dealer immediately if anything is missing or damaged.

System Requirements

To install the VGA card, your computer system needs to meet the following requirements:

- PCI Express® or PCI Express 2.0® - compliant motherboard with one dual-width x16 graphics slot
- Two 6-pin PCI Express supplementary power connectors
- Minimum 500W or greater system power supply (with a minimum 12V current rating of 36A) **Minimum system power requirement based on a PC configured with an Intel Core2Extreme processor Qx9650
- CD-ROM / DVD-ROM for driver installation
- Visiting MSI website for further information of operating system support

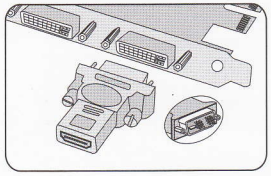
Card Features

For reference only

- **2nd Generation NVIDIA® Unified Architecture**
  Second generation architecture delivers 50% more gaming performance over the first generation through 216 enhanced processing cores that provide incredible shading horsepower.
- **NVIDIA® PhysX™- Ready**
  GeForce GPU support for NVIDIA PhysX technology,enabling a totally new class of physical gaming interaction for a more dynamic and realistic experience with GeForce.
- **3-wayNVIDIA® SLI™ Technology**
  Industry leading 3-way NVIDIA SLI technology offers amazing performance scaling by implementing 3-way AFR (Alternate Frame Rendering) for the world's fastest gaming solution under Windows Vista with solid, state-of-the-art drivers.
- **Microsoft® DirectX 10 Support**
  DirectX 10 GPU with full ShaderModel 4.0 support delivers unparalleled levels of graphics realism and film-quality effects for today's hottest games.
- **NVIDIA® CUDA™ Technology**
  CUDA technology unlocks the power of the GPU's processing cores to accelerate the most demanding system tasks - such as video transcoding - delivering up to 7x performance over traditional CPUs.
- **PCI Express 2.0 Support**
  Designed for the new PCI Express 2.0 bus architecture offering the highest data transfer speeds for the most bandwidth-hungry games and 3D applications, while maintaining backwards compatibility with existing PCI Express motherboards for the broadest support.
- **GigaThread™ Technology**
  Massively multi-threaded architecture supports thousands of independent, simultaneous threads, providing extreme processing efficiency in advanced, next generation shader programs.
- **NVIDIA® Lumenex™ Engine**
  Delivers stunning image quality and floating point accuracy at ultra-fast frame rates.

- **16x Anti-aliasing Technology**
  Lightning fast, high-quality anti-aliasing at up to 16x sample rates obliterates jagged edges.
- **128-bit floating point High Dynamic-Range (HDR) Lighting**
  Twice the precision of prior generations for incredibly realistic lighting effects--now with support for anti-aliasing.
- **OpenGL® 2.1 Optimization and Support**
  Provides top-notch compatibility and performance for OpenGL applications.
- **Dual Dual-link DVI Support**
  Able to drive the industry's largest and highest resolution flat-panel displays up to 2560x1600 and with support for Hign-bandwidth Digital Content Protection (HDCP).
- **NVIDIA® PureVideo™ HD Technology**
  The combination of high-definition video decode acceleration and post-processing that delivers unprecedented picture clarity, smooth video, accurate color, and precise image scaling for movies and video.
- **Discrete, Programmable Video Processor**
  NVIDIA PureVideo is a discrete programmable processing core in NVIDIA GPUs that provides superb picture quality and ultra-smooth movies with100% offload of H.264 video decoding from the CPU and significantly reduced power consumption.
- **Dual-stream Hardware Acceleration**
  Supports picture-in-picture content for the ultimate interactive Blu-ray movie experience.
- **Dynamic Contrast Enhancement & Color Stretch**
  Dynamically provides post-processing and optimization of High Definition movies for spectacular picture clarity.
- **HDCP Capable**
  Designed to meet the output protection management (HDCP) and security specifications of the Blu-ray Disc and HD DVD formats, allowing the playback of encrypted movie content on PCs when connected to HDCP-compliant displays
- **Integrated SD and HD TV Output**
  World-class TV-out functionality via Composite, S-Video, Component or DVI connections. Supports resolutions up to 1080i/1080p, depending on connection type and TV capability

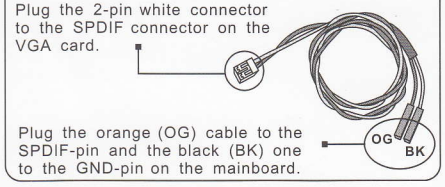
Enabling HDMI Output



Follow the steps below to enable HDMI Output function:

1. Find the DVI-to-HDMI adapter that comes with the package, if provided. Consult your dealer to purchase the adapter if it is not provided.
2. Attach the DVI-to-HDMI adapter to the DVI connector.
3. Ensure that the adapter is firmly installed.
4. Use the compliant SPDIF Internal cable to connect both the SPDIF connectors on the VGA card and your mainboard. Make sure to (1) plug the black cable to the SPDIF-pin and the orange one to the GND-pin on the mainboard; and (2) plug the other end (2-pin white connector) of the cable to the SPDIF connector on the VGA card. Note that wrong installation may cause the damage to the VGA card.

SPDIF Internal cable (optional)


Plug the 2-pin white connector to the SPDIF connector on the VGA card.
Plug the orange (OG) cable to the SPDIF-pin and the black (BK) one to the GND-pin on the mainboard.
OG
BK

Hardware

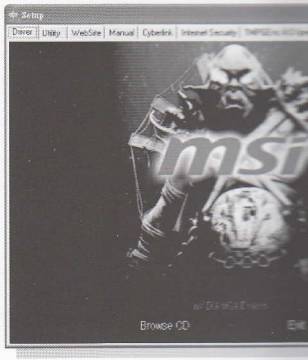
Follow the steps below to install t

1. Remove the computer case.
2. Locate the expansion slot on y
   Warning: Inserting the VGA ca
   slot may damage your card (re
   mainboard manual for more in
3. Put the card directly over the
   press one end of the card into
   Gently but firmly press the oth
   card is fully seated in the slot.
4. Secure the card with a bracket
5. Install all other cards and devi
   all the cables, and then install
6. Connect the monitor. Now, yo
   install the software on your co

Software

To install the driver of the VGA ca

1. Turn on the computer.
2. Insert the CD into the CD-RO
   program, and show the setup



3. Click **NVIDIA VGA Drivers**. Fo
4. After finishing the installation,

sample rates obliterates jagged edges.

Lighting
realistic lighting effects--now with

OpenGL applications.

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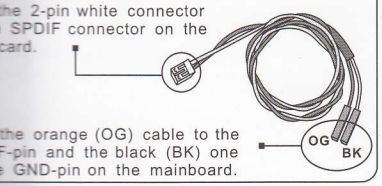
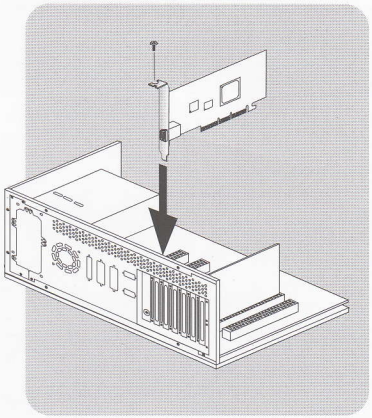
SPDIF Internal cable (optional)



Hardware

Follow the steps below to install the VGA card:

1. Remove the computer case.
2. Locate the expansion slot on your mainboard. Warning: Inserting the VGA card into a wrong slot may damage your card (refer to your mainboard manual for more Information).
3. Put the card directly over the expansion slot and press one end of the card into the slot first. Gently but firmly press the other end until the card is fully seated in the slot.
4. Secure the card with a bracket screw.
5. Install all other cards and devices and connect all the cables, and then install the case.
6. Connect the monitor. Now, you are ready to install the software on your computer.



Software

To install the driver of the VGA card to your computer, please follow the steps below:

1. Turn on the computer.
2. Insert the CD into the CD-ROM drive. The Autorun program will start the Setup program, and show the setup screen as follows:

Tip : If, on your computer, the Autorun program does not execute automatically, please 1) enable the CD-ROM drive Auto-detect function from Control Panel; or 2) find and run the setup.exe file manually from the CD.

3. Click **NVIDIA VGA Drivers**. Follow the on-screen instructions to complete the installation.
4. After finishing the installation, restart the computer as instructed.

Installing MSI Live Update

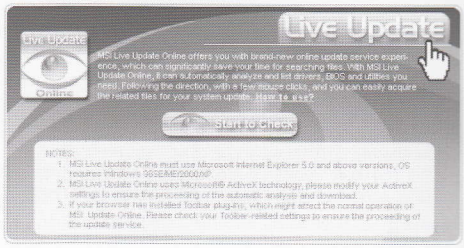
MSI Live Update offers you with brand-new update service experience, which can significantly save your time while searching files. MSI Live Update is capable to automatically analyze and list drivers, BIOS, and utilities you need. With the easy-to-use updating approaches, you can increase the performance of your system easily and quickly. Follow the instructions below, with a few mouse clicks, you can acquire the related files for the system updating.

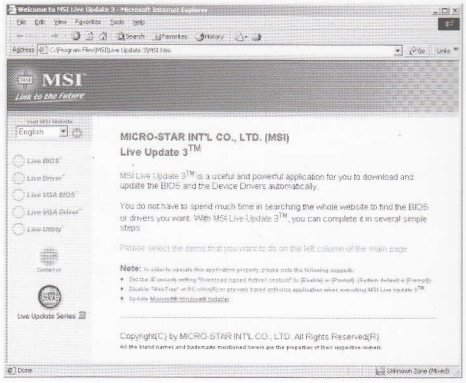
Installing from the Disk

1. Insert the supplied disk into the CD-ROM drive, and start the **Setup** program.
2. Click the **Utility** tab on the setup screen.
3. Click the **MSI Live Update.** Follow the on-screen instructions to complete the installation.

Installing from the MSI Web Site

1. Link to MSI's website at http://www.msi.com.tw
2. Find and click **Live Update Online** on the left side of the web page to enter MSI Download Center.
3. Click **Start to Check** to download the Live Update application.
4. Click **Install** the continue.
5. Follow the on-screen instructions to complete the installation.
6. Launch MSI Live Update and to enter the main page of this utility as shown here.





Using MSI Live VGA

This service enables you to update the

1. To update the MSI Live VGA Driver, column of the main page.
2. This utility will start checking your display the information in a list.
3. Click the graph button on the botto Then, it will automatically connect in the database.
4. It may take several minutes to dete proceeding detection.
5. Click the **InstallShield Wizard** butt update the driver. All actions will pr
6. Follow the on-screen instructions to

Using MSI Live VGA

This service enables you to update the

1. To update your VGA BIOS, click Li
2. If your VGA card does not support message on the screen.
3. If your VGA card do support the Li message shown on the screen telli fail to reboot.
4. Click Yes if you would like to try it everything unchanged.
5. If you click Yes to continue, it will c card, and list them in a table.
6. Click the graph button at the bottom
7. The MSI Live VGA BIOS will autom BIOS in the database of MSI.
8. If it has found one (or several) supp Wizard button on the right side of updated automatically.
9. Follow the on-screen instructions to

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ies you need. With the easy-to-
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use clicks, you can acquire the

nd start the **Setup** program.

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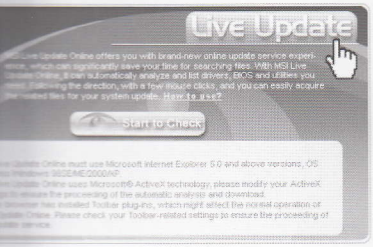

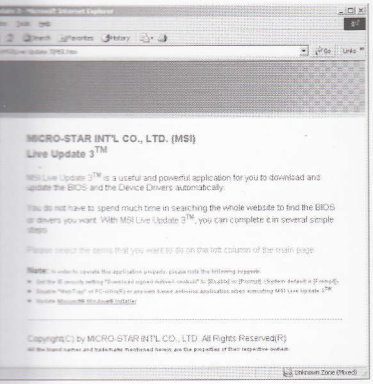

Using MSI Live VGA Driver Update

This service enables you to update the latest VGA driver for your VGA card.

1. To update the MSI Live VGA Driver, click Live VGA Driver item on the left column of the main page.
2. This utility will start checking your platform and the information on the VGA card, and display the information in a list.
3. Click the graph button on the bottom to connect MSI Live Update Series Server. Then, it will automatically connect the Internet and compare the version of the driver in the database.
4. It may take several minutes to detect the required drivers. Please wait while proceeding detection.
5. Click the **InstallShield Wizard** button on the right side of the table to download and update the driver. All actions will proceed automatically.
6. Follow the on-screen instructions to complete the updating procedure.

Using MSI Live VGA BIOS Update

This service enables you to update the latest VGA BIOS for your VGA card.

1. To update your VGA BIOS, click Live VGA BIOS item on the left column of the main page.
2. If your VGA card does not support the Live VGA BIOS function, you will receive a warning message on the screen.
3. If your VGA card do support the Live VGA BIOS function, please pay attention to the message shown on the screen telling you that in what circumstance flashing BIOS may fail to reboot.
4. Click Yes if you would like to try it at your own risk or No to return to the main page with everything unchanged.
5. If you click Yes to continue, it will check the information and BIOS version of your VGA card, and list them in a table.
6. Click the graph button at the bottom to connect the MSI Live Update 3 Server.
7. The MSI Live VGA BIOS will automatically connect the Internet and search the supported BIOS in the database of MSI.
8. If it has found one (or several) supported BIOS for your VGA card, click the InstallShield Wizard button on the right side of the table to have the new BIOS downloaded and updated automatically.
9. Follow the on-screen instructions to complete the updating procedure.

CERTIFIED FOR Windows Vista™

CE N1996

FC MICRO-STAR INT'L MS-V177

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CAUTION!!
Do not force the GPU cooler against the fragile GPU to avoid damage to the GPU.

WARNING!!
DO NOT touch the cooling system since it may produce a certain heat while processing tasks.

Under the European Union ("EU") Directive on Waste Electrical and Electronic Equipment, Directive 2002/96/EC, which takes effect on August 13, 2005, products of "electrical and electronic equipment" cannot be discarded as municipal waste anymore and manufacturers of covered electronic equipment will be obligated to take back such products at the end of their useful life.

msi Graphics Card

MICRO-STAR INT'L CO., LTD.
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http://www.msi.com.tw

G52-V1772X2-AG4
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